

TAPE READERS (CX)

LUBRICATION

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Note 1: Use TP145867 (4 oz tube) or TP143484 (1 lb can) grease on all surfaces where grease is indicated.

Note 2: Quantity of lubricant is normally given in the lubrication instructions where the exact number of drops of oil is specified. For example, O1, O2, O3, etc, refer to 1, 2, 3 drops of oil.

Note 3: All ball and needle bearings should be oiled liberally at each lubrication interval except during assembly or reassembly when a light film of TP195298 grease or its equivalent is used.

1. GENERAL

1.01 This section provides lubrication information for CX tape readers (Figure 1). It is reissued to include new information for reader CX808 and the latest engineering changes. Marginal arrows indicate changes and additions.

1.02 General areas of the reader are shown by photographs. Specific points to receive lubrication are indicated by line drawings and descriptive text. The line drawings and descriptive text follow each photograph and are keyed to the photographs by paragraph numbers.

1.03 References made to left or right, front or rear, and top or bottom apply to the reader as viewed with the flywheel facing the viewer (Figure 1).

1.04 The following symbols are used in the lubrication instructions to indicate the type of lubricant.

- O Apply KS7470 oil
- G Apply grease as specified

1.05 Lubricate the reader before placing it into service and just prior to putting it into storage. All felt lubricating washers and wicks should be saturated with oil. All moving surfaces and friction points should be thoroughly lubricated as follows:

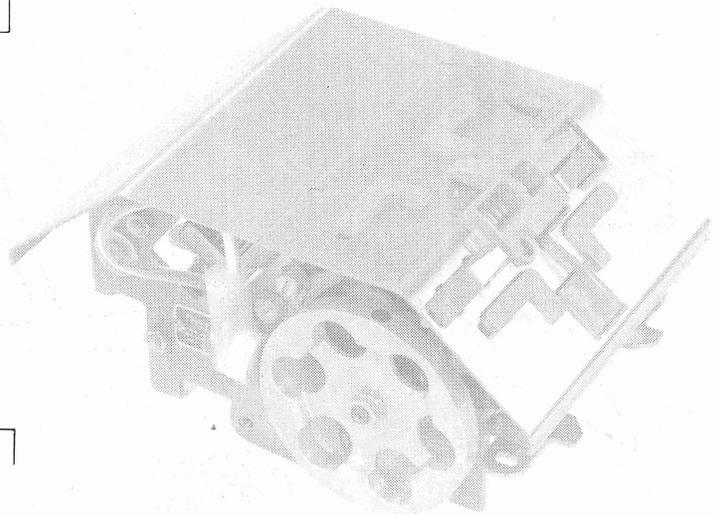


Figure 1 - CX Tape Reader (Typical)

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- O1 or O2 — All pivot points
- O1 — All tension springs — each hook end
- O1 — All compression springs — each end
- G — All cams and sliding surfaces — light coat of grease (unless otherwise noted)
- ← O — All ball and needle bearings — oil liberally

1.06 After approximately 200 hours or four weeks of operation (whichever comes first), relubricate the reader to make certain no points have been missed. Thereafter, lubricate the reader according to the following schedule:

Operating Speed (wpm)	Lubrication Interval*
1000	250 hours or 6 weeks
750	500 hours or 12 weeks
500	1000 hours or 24 weeks
300	1200 hours or 24 weeks
150	1500 hours or 6 months
100	2000 hours or 9 months

*Whichever occurs first.

1.07 Ordering information for lubricants and a complete list of tools and materials available to maintain the reader is given in Section 570-005-800.

1.08 Apply oil with an appropriate oil applicator found in the maintenance tool kit. Overlubrication which would allow oil to drip on other parts should be avoided. Wipe off excess amounts of lubricant. Capillary action and vaporization tend to keep a film of oil on the parts. This prevents rust and provides sufficient lubrication to many points.

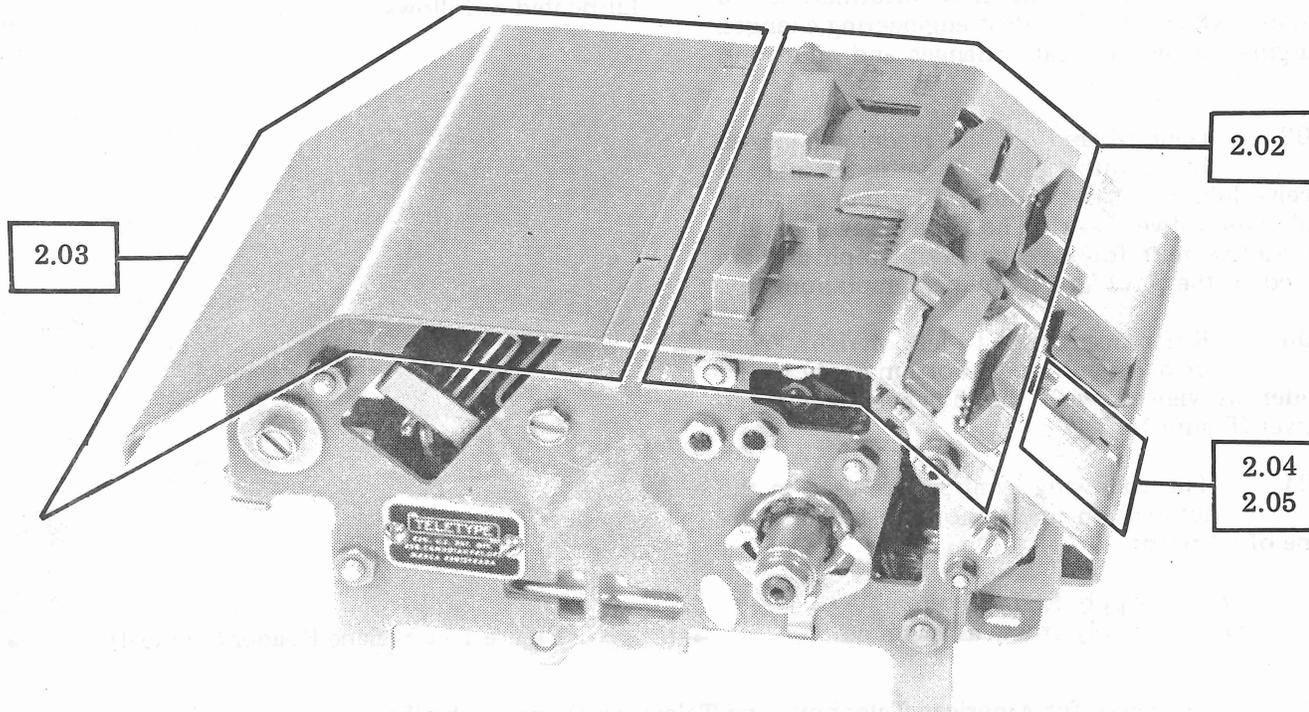
CAUTION: SPECIAL CARE SHOULD BE TAKEN TO PREVENT ANY LUBRICANT FROM GETTING BETWEEN ELECTRICAL CONTACTS.

Note: Protective pad TP124828 is available to protect furniture and floor coverings from oil, grease and dirt while lubricating the reader.

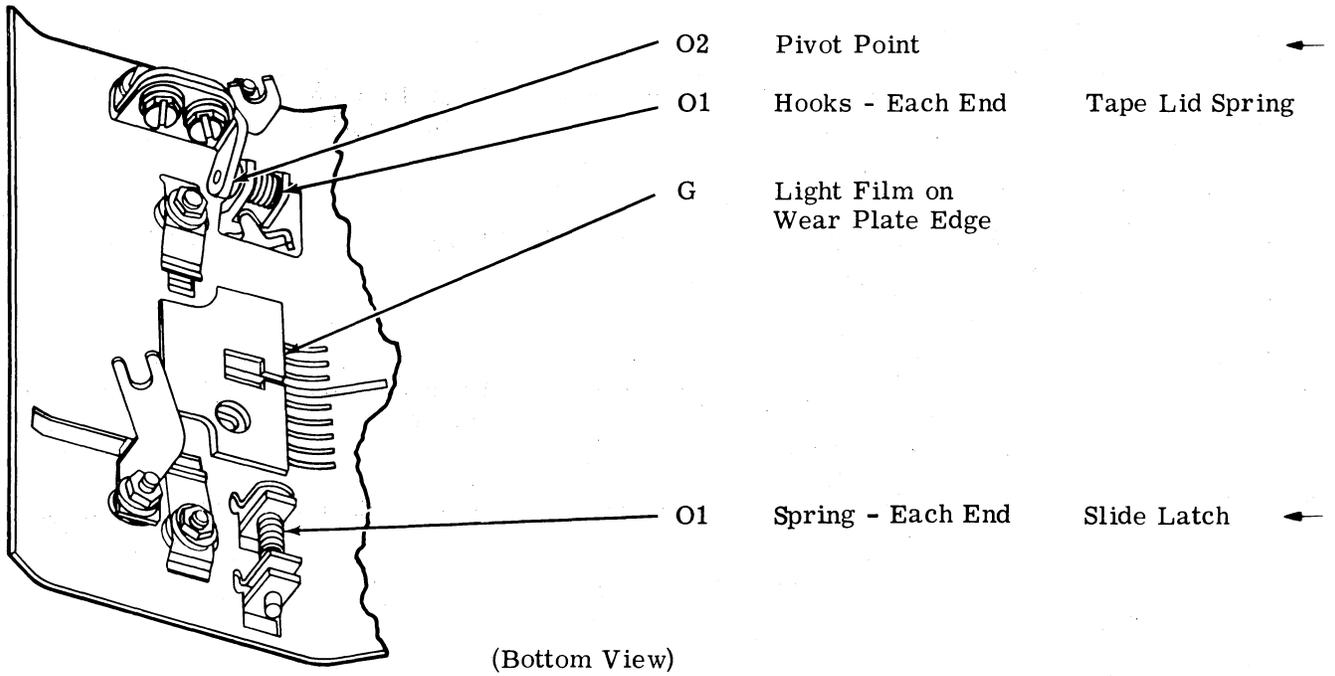
CAUTION: REMOVE POWER BEFORE LUBRICATING READER.

2. BASIC UNIT

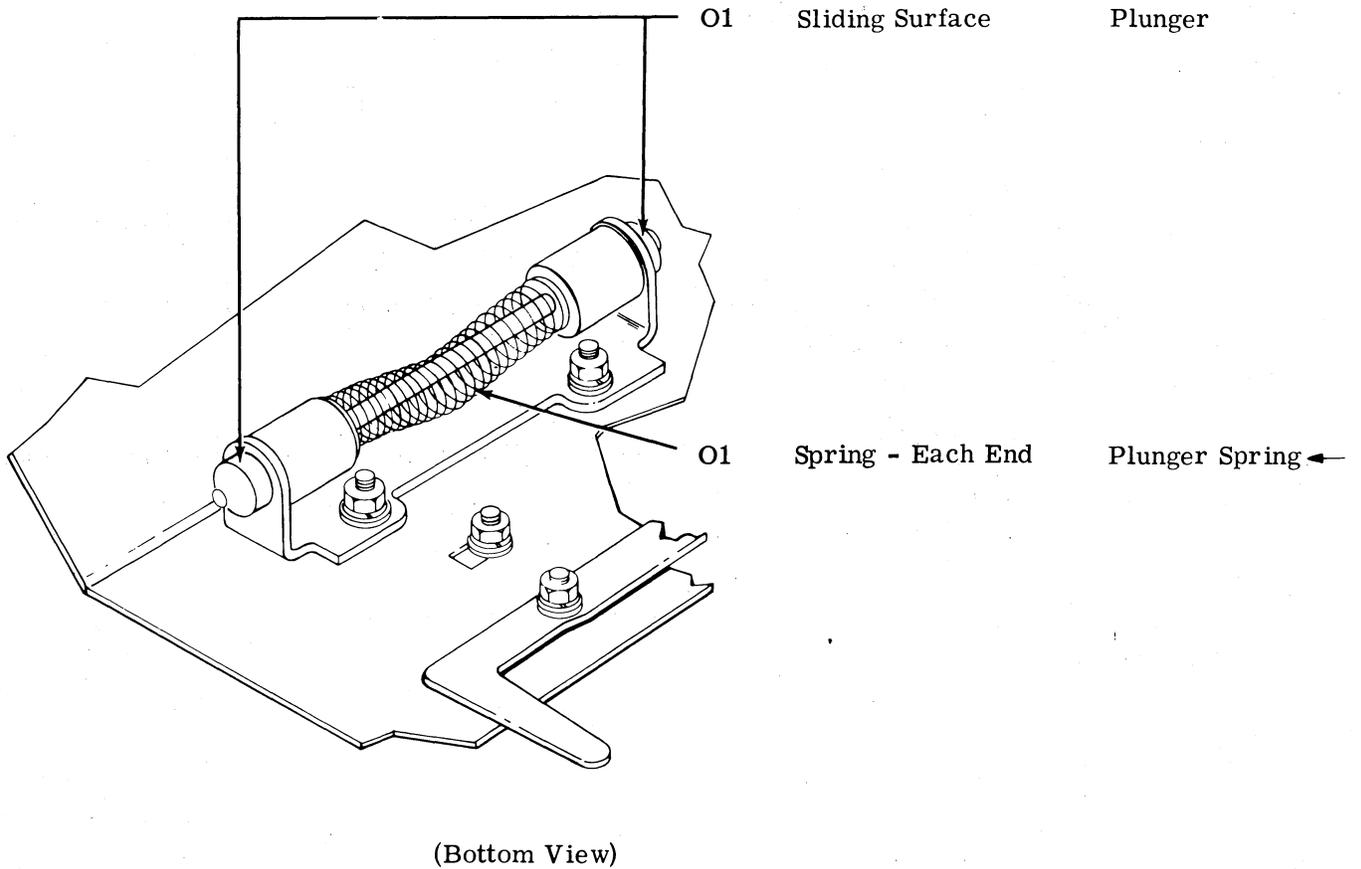
2.01 Tape Reader (Front View)



2.02 Tape Lid Mechanism

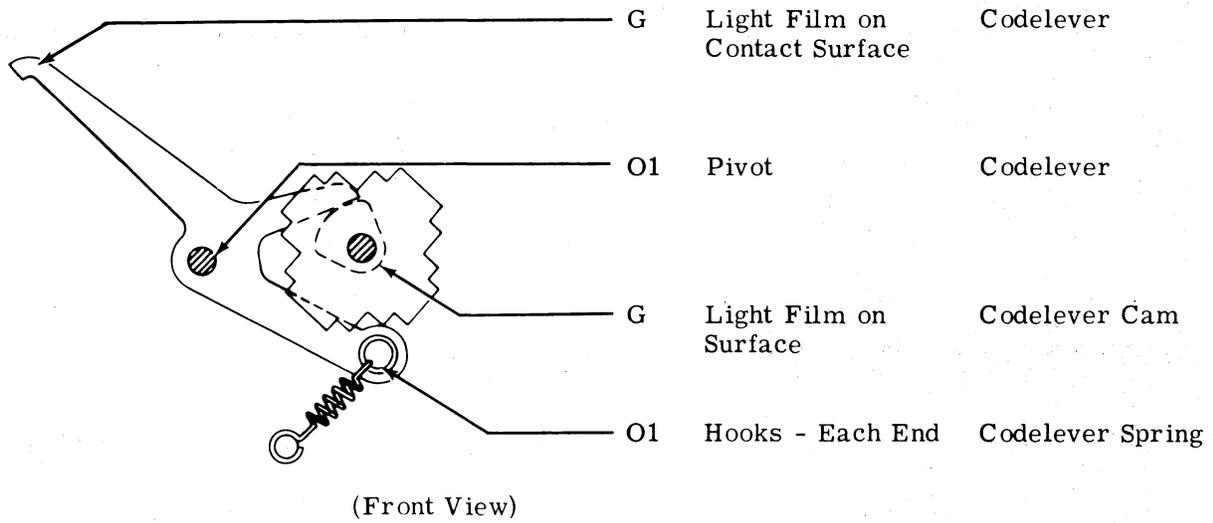


2.03 Cover Plate Plunger Mechanism

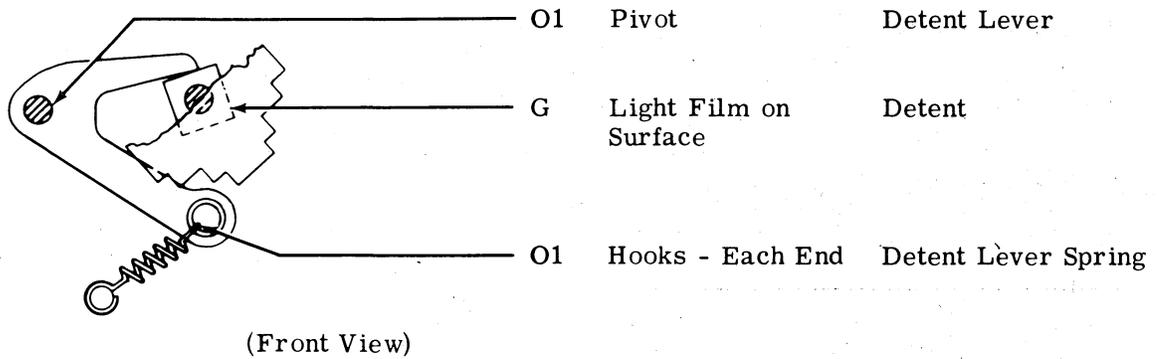


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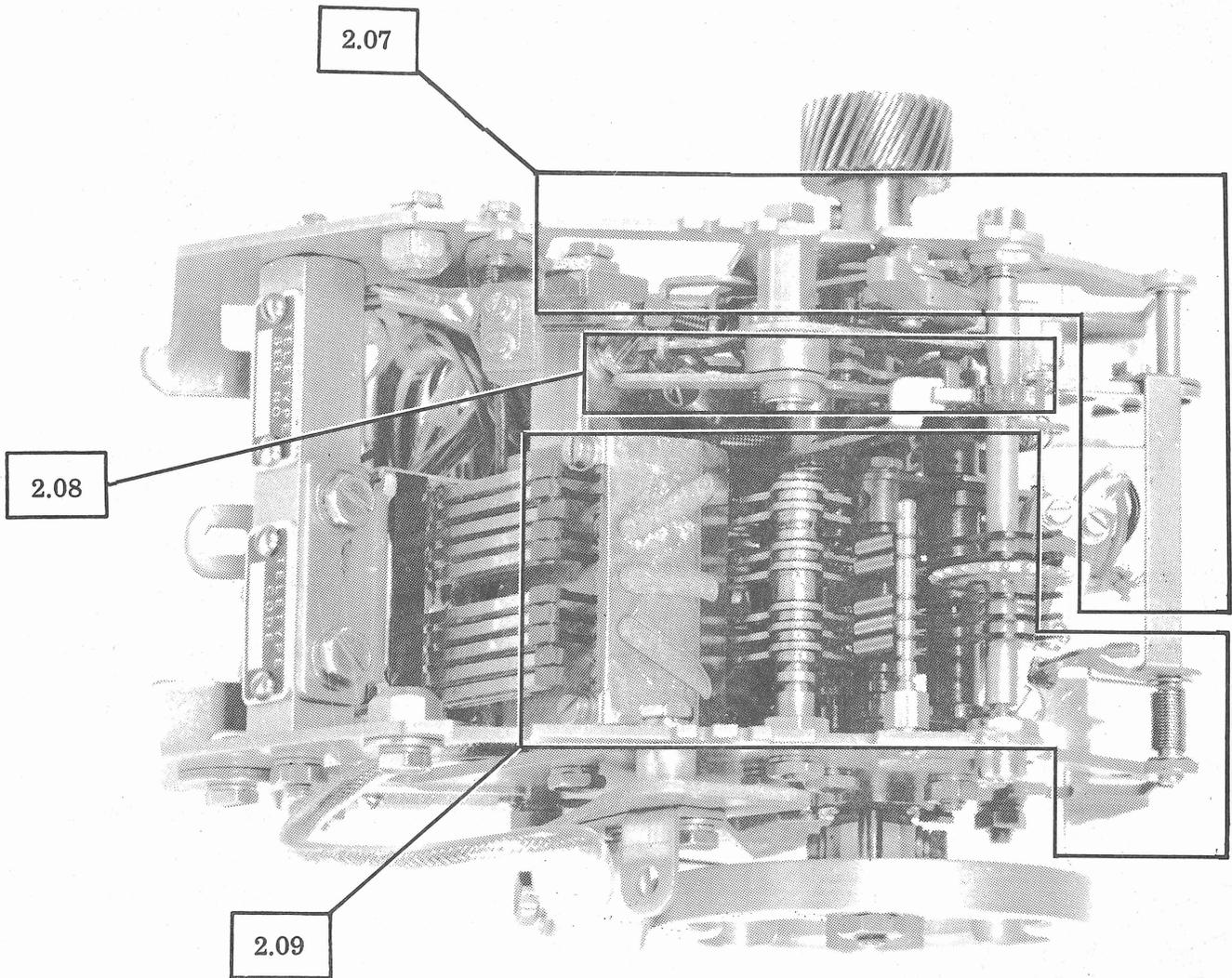
2.04 Universal Tape Reading Mechanism



2.05 Universal Tape Reading Mechanism (continued)

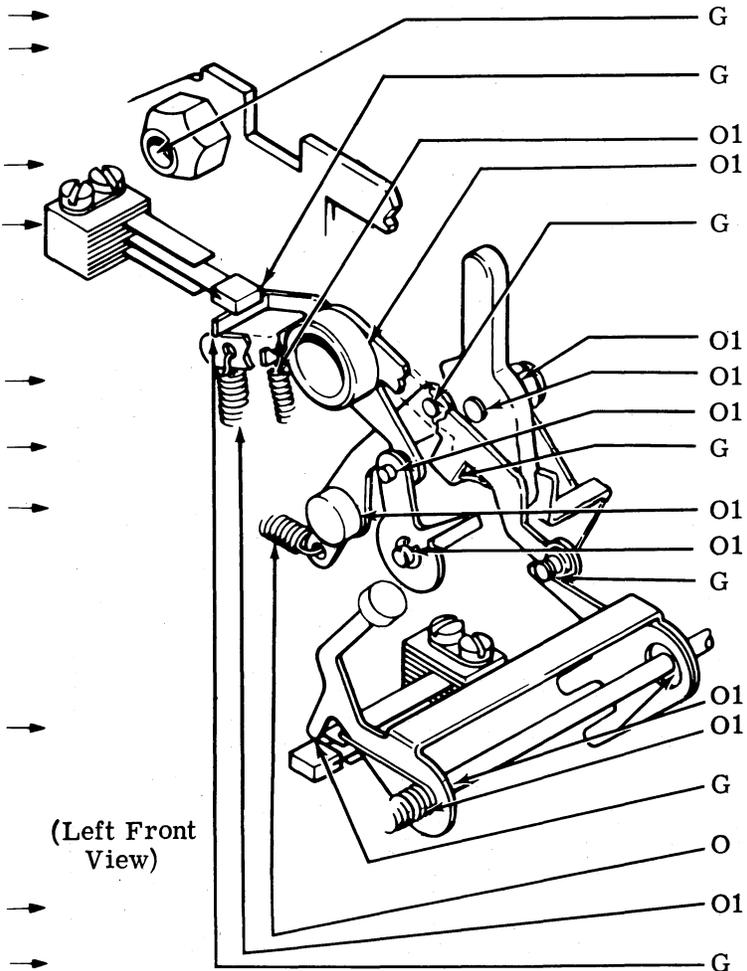


2.06 Tape Reader (Top View)



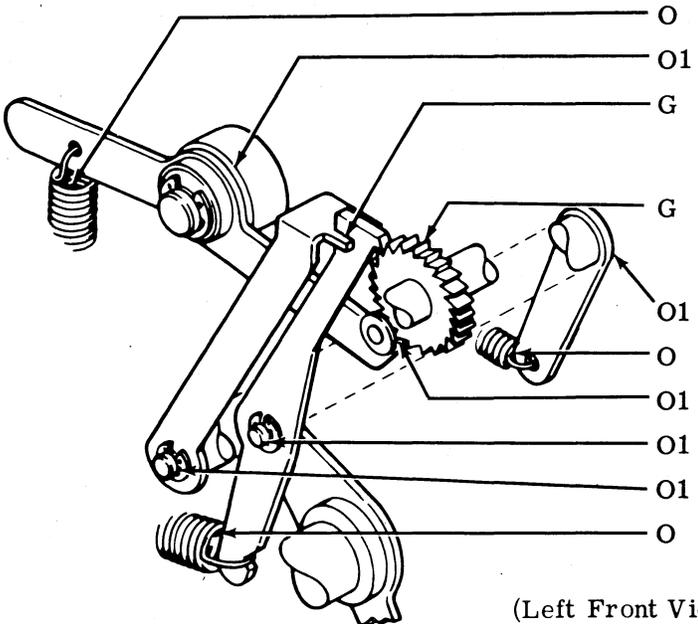
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2.07 Operation Control Mechanism



- G Light Film on Plunger inserts Side Plate
- G Light Film on Contact Surface Swinger Tip
- O1 Hooks - Each End Tape-Out Arm Spring
- O1 Pivot Point Intermediate Control Lever
- G Light Film on Contact Surface Control Lever Detent
- O1 Pivot Point Tape-Out Arm
- O1 Pivot Point Control Lever
- O1 Pivot Point Intermediate Lever
- G Light Film on Contact Surface Control Lever
- O1 Pivot Point Detent Control Lever
- O1 Pivot Point Intermediate Lever
- G Light Film on Contact Point Tape-Out Stop Arm
- O1 Pivot Points Tape-Out Extension
- O1 Spring Hooks - Each End Tape-Out Pin
- G Light Film on Contact Surface Swinger Tip
- O Saturate Felt Wick Detent Spring
- O1 Hooks - Each End Intermediate Control Lever Spring
- G Light Film on Contact Surface Intermediate Control Lever

2.08 Feed Mechanism

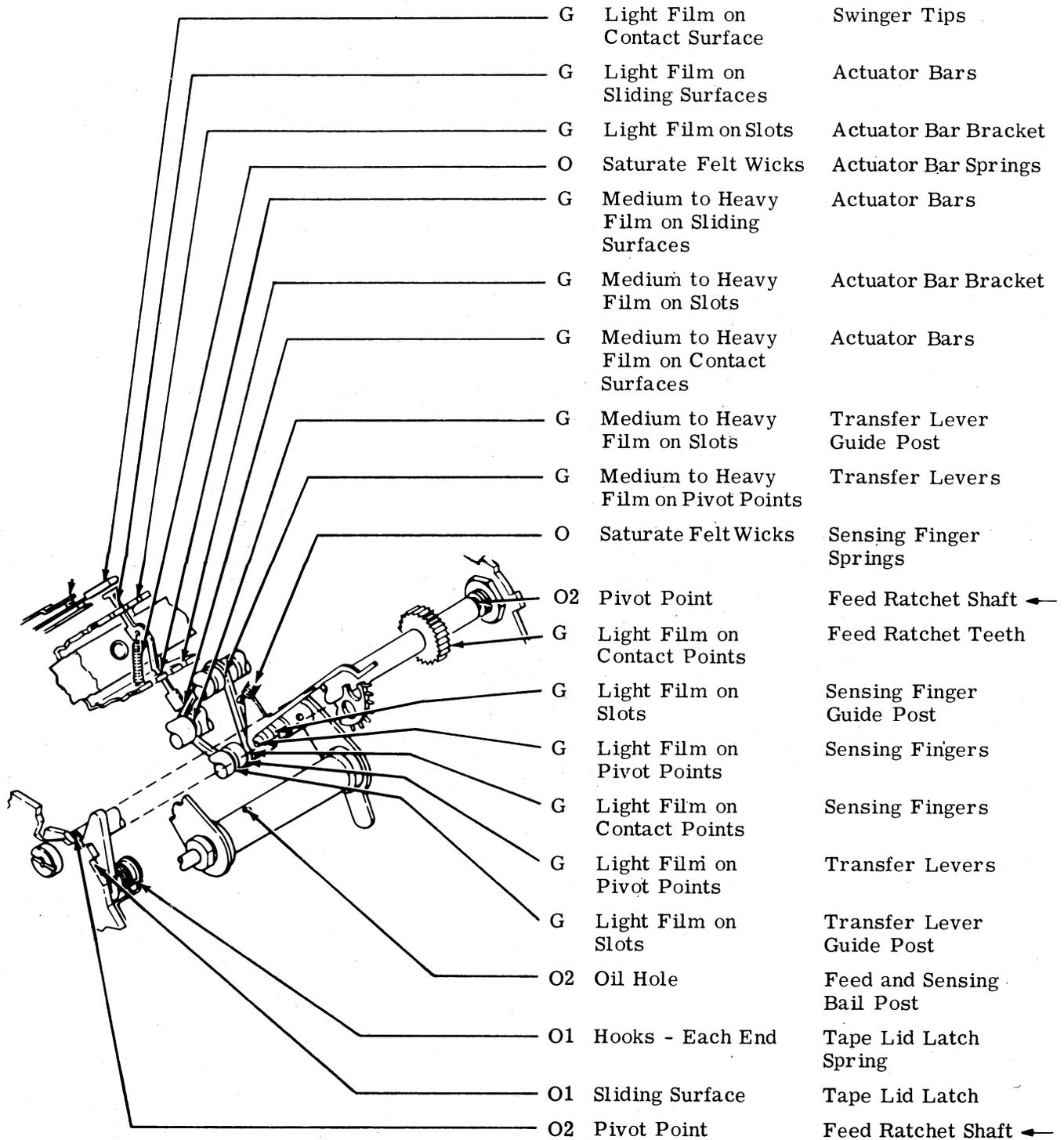


- O Saturate Felt Wick Detent Lever Spring
- O1 Pivot Point Detent Lever
- G Medium to Heavy Film on Contact Point Inertia Stop Lever
- G Medium to Heavy Film on Contact Points Feed Ratchet Teeth
- O1 Pivot Point Inertia Stop Lever
- O Saturate Felt Wick Inertia Stop Lever Spring
- O1 Roller Detent Lever
- O1 Pivot Point Feed Pawl
- O1 Pivot Point Inertia Stop Lever
- O Saturate Felt Wick Feed Pawl Spring

(Left Front View)

2.09 Sensing Mechanism

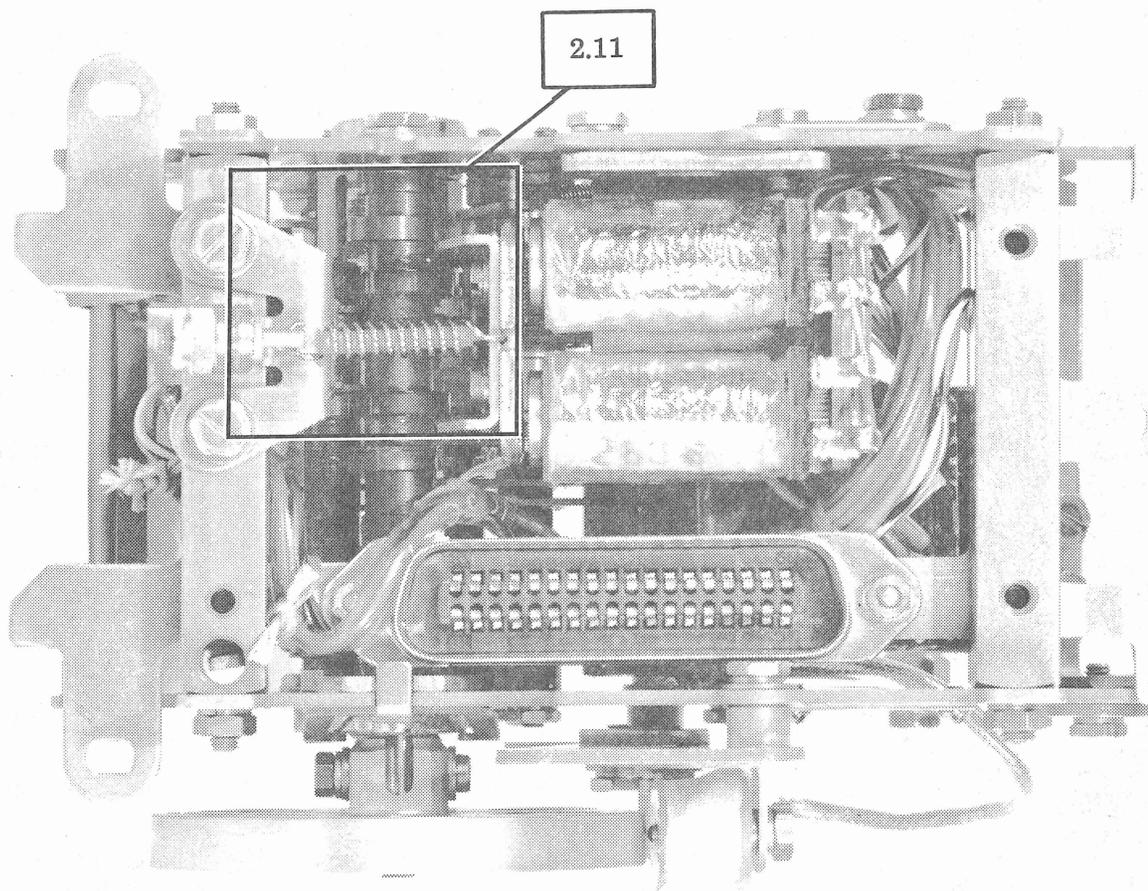
Note: Exercise care to prevent lubricant from finding its way to contact points.



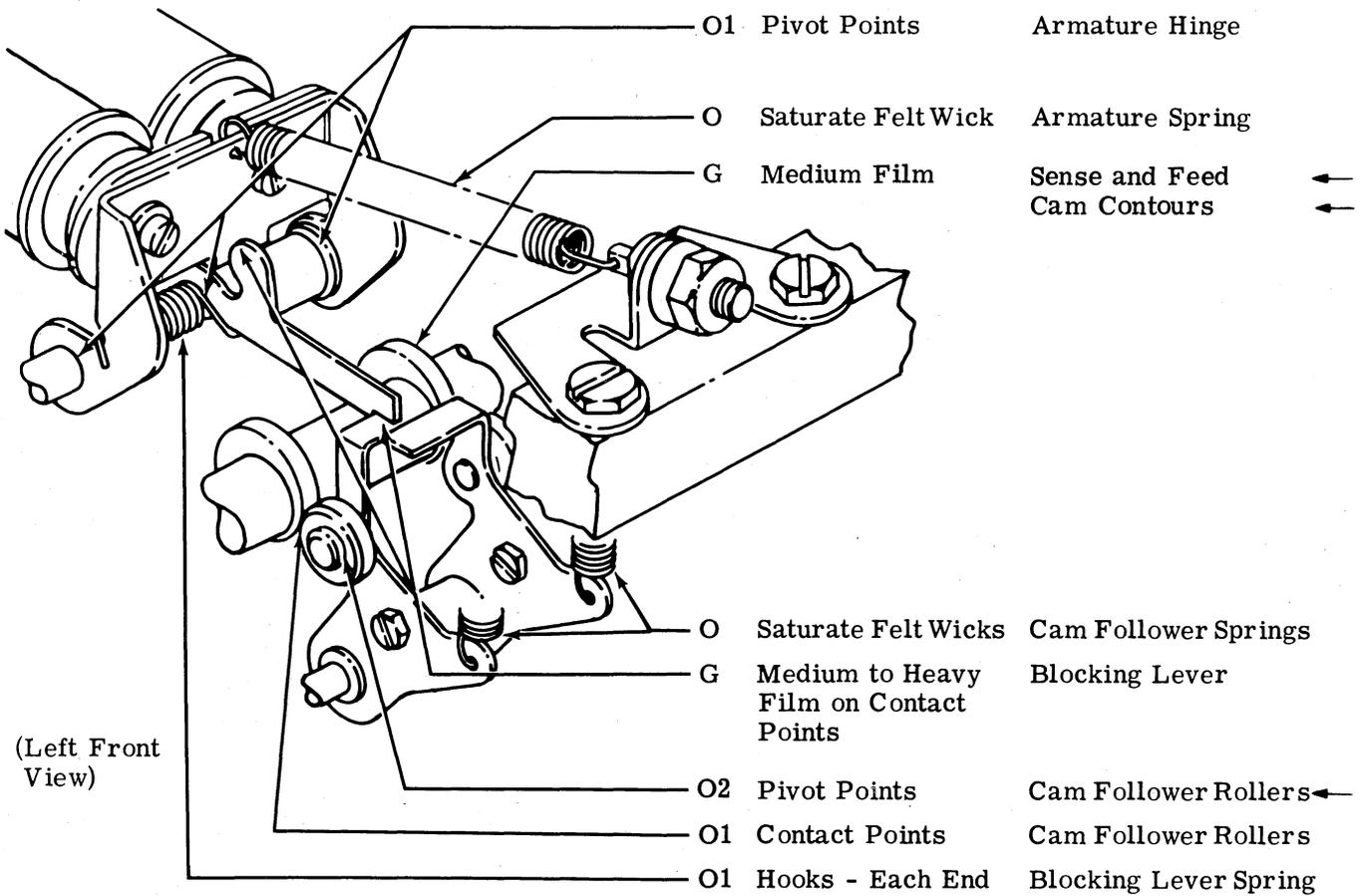
(Left Front View)

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2.10 Tape Reader (Bottom View)



2.11 Latching Mechanism



2.12 Motor and Main Shaft Assembly

Note: Typical application is illustrated. Lubricate standard coded motor units as instructed in Section 570-220-701. Refer to the appropriate sections for lubrication instructions on other motor units.

